

Appl. No. 10/064,595
Amdt. dated May 17, 2005
Reply to Office action of March 03, 2005

AMENDMENTS TO THE CLAIMS

1. (original) A method for controlling a network connection of the terminal in a wireless network system, the terminal
5 capable of wirelessly transmitting and receiving data, the wireless network system comprising a plurality of wireless networks, the different wireless networks having different identities capable of being transmitted wirelessly by each wireless network, the terminal comprising:
- 10 a plurality of distinct sorting pointers, each distinct sorting pointer representing a unique priority;
a network database for recording a plurality of predetermined identities;
a plurality of configuration tables, each configuration
15 table for corresponding one predetermined identity to one unique sorting pointer, and each configuration table having at least a unique predetermined identity which corresponds to a sorting pointer; and
a status pointer for representing an operational
20 location and time;
- the method comprising:
- receiving identities of the plurality of wireless
networks via wireless transmission;
choosing a configuration table from the plurality of
25 configuration tables according to the status pointer;
comparing the predetermined identity of the chosen configuration table with the identities received,

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and if any of the plurality of identities received matches the predetermined identity, then choosing an identity according to the sorting pointer corresponding to the status pointer; and
5 wirelessly connecting to the wireless network corresponding to the chosen identity.

2. (original) The method of claim 1 wherein when choosing an identity according to the matched sorting pointer
10 corresponding to the predetermined identity, the predetermined identities matching the chosen identity have sorting pointers with higher priorities.

3. (original) The method of claim 1 wherein the network database
15 has a plurality of key IDs stored in the database with each of key IDs corresponding to a predetermined identity; and when wirelessly connecting to the wireless network which is corresponding to the chosen identity, data being uploaded or downloaded between the terminal and the wireless network
20 is encrypted according to the key ID corresponding to the network identity.

4. (original) The method of claim 3 wherein when connecting to the wireless network corresponding to the chosen identity
25 via wireless transmission, a certification program is first processed, then the data being uploaded or downloaded between the terminal and the wireless network is encrypted according to the key ID which is corresponding to the wireless identity.

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- 5 5. (original) The method of claim 1 wherein each wireless network has at least an access point, and the identity of each wireless network is transmitted by the access point of each wireless network.
6. (original) The method of claim 1 wherein the terminal is a notebook computer.
- 10 7. (original) The method of claim 1 wherein the plurality of wireless networks are capable of responding to a probe signal by wirelessly transmitting the identity corresponding to the wireless network, the method further comprising:
 15 sending out a probe signal through the terminal before receiving the plurality of identities of the wireless network via wireless transmission, and having the plurality of wireless networks respond to their own corresponding identities to make the terminal capable of receiving the identities corresponding to
 20 the plurality of wireless networks.
8. (original) The method of claim 1 wherein each of the wireless networks is capable of continuously sending out a beacon signal comprising a corresponding identity of the wireless
 25 network, and the terminal is capable of receiving the plurality of identities corresponding to the wireless networks.

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9. (original) The method of claim 1 further comprising:
choosing an identity via a predetermined method when
comparing the predetermined identities of the
chosen configuration table to the identities
received from the terminal results in no received
identities being identical to any of the
predetermined identities.
10. (original) The method of claim 9 wherein the predetermined
method chooses an identity randomly.
11. (original) The method of claim 9 further comprising:
wirelessly connecting to the wireless network which is
corresponding to the chosen identity; and
updating the chosen configuration table according to the
chosen identity.
12. (original) The method of claim 11 further comprising:
updating all configuration tables according to the
chosen identities.
13. (new) The method of claim 1 wherein each configuration table
corresponds to a unique list of prioritized user preferences
for a specific operational time and physical location of the
terminal.